


```

0Y 64 SANSRCKOCOCITLOSILKYPLAKYOPLDLPDPYOLAEAPILFKESDAPANSTKRFW 123
Db 93 IAYNRCEGOCITLTDSD-----KTPRLSPNPOQDPAEMLRRESDSNPAKNEVRFW 146
0Y 124 MRFGRCKHMSYFHDLVFMLEKENVTRADADIDENFASRYLYMAATLVYKYTVNDEFGAS 183
Db 147 MRSR--SSHGOYHHEFVYSLKKNNVRDESDSDVENFASQYFMYMTLYKYITLYDLPFAAK 204
0Y 184 FPNKLSTPTTGLFGWGIKALKOITRSNLPDIDTGEHSVSRLOHTITSSYKDYMDTOIDALP 243
Db 205 FPNKLAFTTRLFGEIGIOKALKRLRVSINLPDLOGT--HPEATIREIASGGEYMTQVPAWT 263
0Y 244 KFAKFEStLVNVOQLLATYAGVYDTPWYKYYKWKMLKNPVRNVPFLPTKKFPEKELREBSK- 302
Db 264 SFAERFSMAARKTTLVYSDVYVHLPAYKRWKRKEEIVN--FTDPAKLLMKHVSOPVKT 322
0Y 303 ALKEKVSPTDKDLEFNKIGOGTVPFNKEIRDPSPALKKEKVSNAKDLFENKI-----G 356
Db 323 AYTKLVEPEHQAIRNVYGOSTKIHAN-GVYDLSRMKE-----PSQOITREKLEPHYLSKA 377
0Y 357 OGTVDFINNEIRD--PSKALIRKYSTGAEDLFENKIGOGTVPFINNEIRDPSPKALLIRKY 414
Db 378 KGAVEHYVKKKVSVPDK---QKGDQPSAEVALEFVPSG--DSAETFEVPEEGYDVAVT 432
0Y 415 T-----EADD 419
Db 433 TOEVNSEKVDADD 445

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RESULT 2
5171685-6
: Patent NO. 5171685
: APPLICANT: MCELMAIN, TERRY F.; HINES, STEPHEN A.; MCQUIRE,
: TRAVIS C.; PALMER, GUY H.; JASMER, DOUGLAS P.; REUKER, DAVID W.
: GOLF, WILL L.; PERRYMAN, LANCE E.; DAVIS, WILLIAM C.
: TITLE OF INVENTION: CLONING OF THE BABESIA BOVIS 60 KD ANTIGEN
: :
: : NUMBER OF SEQUENCES: 7
: :
: : CURRENT APPLICATION NUMBER:
: : APPLICATION NUMBER: US/07/504,461
: : FILING DATE: 04-APR-1990
: : SEQ ID NO: 6:
: : LENGTH: 565
5171685-6

```

Query Match	35.0%	Score 826.5	DB 6	Length 565
Best Local Similarity	35.58	Pred. NO. 4.9e-68		
Matches 178; Conservative	79	Mismatches 195	Indels 49	Gaps 6

Oy	1	MAPSOSVDYKTKTLLAASEVDSAMANYMSIDMSDYLSANOSDFABRISQOVPKSGCS	60
Db	31	LAPAVVODLTSTLETADTLTLTLTDHNNHNTTKDKKHVLSNCREDIVDVCNMAEDSNCR	90
Oy	61	ASVASVMSRCAKODLTLOSILKYPLBEAKYOPLTLPDPYOLEAAEILRKESDANPANKSTK	120
Db	91	EYVNNYVADRCEMGEYGTIDNKKYPLXOYEOPLSLPNYQODAPARLRKESASNPANKSVK	150
Oy	121	RFPMKFRRGKXHSYFHDVLVFNLEKNVTRROADATDIENFASRYLYMATYLYKYTYNDEF	180
Db	151	REWLFRFNGANHGDYHYEVFTGLLNNNVNHEGGTDEVEILVKKYLYMATMYKTYLTIVNSM	210
Oy	181	GASFPNKLSFTTGLFGWGIKIRALQOIRSNPLRDIDIGHEHSRLOHTTSKDKVMDQIP	240
Db	211	NAKFEFNRSFTTKIFISRIIRQTLDIRNVNBEF-EERSIERITOLTSSYEDMYLTOIP	265
Oy	241	ALPFRKARESLMVVORLLATVAGVVDPRWPKYKMYKLIKPNFVNVRVPLPTKPF	292
Db	270	TLSKFAKRYADWKKVYLGLSTIVEAPWKRMJLKKRDFESKKNVTOPTKFEIDTNEVT	322
Oy	293	-----FNKEIRBPSKALKEKESVSTQDLEFNKIGOGTVD	326
Db	330	KNYLKANYAEPTKKFMODTHEKTKGYLKENVAEPTKKFFPKAEAPQVYKHFHFDENIGOGTKE	389
Oy	337	FFNKIEIRDPISKALKEKYSNDACKDLFEKNIGOGTVDFINNEIRDESKALIRKVSITGAEDLF	386

Db 390 FFREAPQATKTHFDENIGQPTKEFF-KEAQATNHFLGEMIAQPTKEFFADVPQYTKVY 448
QY 387 ENKIGQGVDF-----INNELRDSKALIRKVTYEADLLENKIGQGVDFINK 435
Db 449 TENIAQPTKEFFREVPNATMKVLLENIAQPAKEIHFEFGAKN-FTSAHNEGTQFLNE 507
QY 436 EIRDSKALIR-KVSTEADNL 455
Db 508 TVGQPTKEFLNGALLETTKDAL 528

```

RESULT 3
5518916-6
Patent No. 5518916
APPLICANT: MCELMAIN, TERRY F.; MCGUIRE, TRAVIS C.; JASMER,
DOUGLAS P.; REUKER, DAVID W.; GOFF, WILL L.; STILLNER, DAVID
TITLE OF INVENTION: CLONED BABESIA DNA
NUMBER OF SEQUENCES: 7
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/342,480
FILING DATE: 21-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 989,616
FILING DATE: 14-DEC-1992
APPLICATION NUMBER: 504,461
FILING DATE: 04-APR-1990
APPLICATION NUMBER: 333,155
FILING DATE: 04-APR-1989
SEQ ID NO.: 6
LENGTH: 565
5518916-6

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Query Match	35.08;	Score	826.5;	DB	6;	Length	565;
Best Local Similarity	35.58;	Pred. No.	4.9e-68;				
Matches 178; Conservative	79;	Mismatches	195;			Indels	49;
						Gaps	6;

Qy	1	MAIDSDVDYTKTLLAASEVSDAANAANYMINSMDSDVLSAVSONFAERICSOVPKSNC	60
Db	31	LAPAEVVGDDLTSTLETADPTLTTLRDNHNNITTKDKHVLNSGREGDYNDVSNAPEDSNC	90
Qy	61	ASVASYSRCAKODCLTLOSILKYPLEAKYOPLTPDPYOLEAFILEKESDANPANSTK	120
Db	91	EYVNNYADRCSEMYCETIDNWKYUQOYOLSPNRYOLDAARFLEKESAPANSKYV	150
Qy	121	RPMARFRGKHNSTFHDLYFYLLEKNTYTRADATDINFASTRLYUMATLYKRYTYNVER	180
Db	151	REWLFRFGANHGYHFFVYGLLNNNVNHEGCTDVEYLVNKKALYMATMYKTYLTVNSM	210
Qy	181	GASEFNNKLSFTGFLGFGIKRALKOIRSNLPDLIGTENSVSRLONHTSSKCYMDTOIP	240
Db	211	NAKFENRSEFTTKJESRRIRQTLSDIIRMVNPEDE-BERSIERITQLTSSYEDYMLTOIP	269
Qy	241	ALPFAKFKSLMVOQLLATYAGVYDOPRYKKWYMKLKNMVRNVRFLPTPKF-----	292
Db	270	TLSKFAKRYADMKVKLLGSLSTVSEYBPKRYMKKKRDEFSKNVTOPTKLFIEDTNEYT	329
Qy	293	-----FNKEIRSEPSKALKEKVSJDTKDLDENKIGOGYVD	326
Db	330	KNYLKANVAEPTKKFMQDTHEKTKGYLKENVAEPTKTFKFEARQVUTKHFEDENIGOPKE	389
Qy	327	FFNKKEIDRPSALKLEKYSNDKADLFENKIGOGYVDFTNNIRDRPSALKLYKYSTGADLE	386
Db	390	FFREAPQATTKHFEDENIGOPKEFF-REAPQATTKHFGENIMADPTKEFFADVYQVTKKYI	448
Qy	387	ENKIGOGYVD-----INNEIRDSKALIRKYVTEADLEFNKIGOGYVDIFNK	435
Db	449	TENIAOPTKEFRREVPHATMKVLUNENIAOPAKELIHFGIGANN-FISAHNEGTKQFLNE	507
Qy	436	EIRDRSKALIR-KYSTENDUL	455
Db	508	TVGQPTKEFLNGALETTKDAL	528

```
RESULT 4
US-09-541-782-4
; Sequence 4, Application US/09541782
; Patent No. 6284480
; GENERAL INFORMATION:
; APPLICANT: Nislow, Corey
; APPLICANT: Sakowicz, Roman
; APPLICANT: Beraud, Christophe
; TITLE OF INVENTION: Antifungal Assay
; FILE REFERENCE: 1015
; CURRENT APPLICATION NUMBER: US/09/541.782
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1038
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-541-782-4

Query Match          5.18; Score 120; DB 4; Length 1038;
Best Local Similarity 19.58; Pred. No. 0.022;
Matches 119; Conservative 97; Mismatches 214; Indels 180; Gaps 28;

QY 4 SDSVDYTKTLTLLASEVSDSANANMYI-----NSDMSDYLSAVSD-----NFA 46
DB 188 SDAAGIIPVLLKLPDLELOQNDYVAKCFIELYNEELKDLDSNSGSSNTGDFGQFM 247
QY 47 ERICSGVPGKSCSASVAYMSRCADOC-----LTLOS--LKYPLEAKYQPLTLPDP 97
DB 248 KKLIIFASSTANNTTSSASSRSNSRNSPRSLNDLPKALLKRLRTSLPRTIQO 307
QY 98 YOLEPAATLKRSPANANSTE-----KRFWRFRGRKNHSTFHDLY----- 139
DB 308 YOOQOAVNSRRNSSSGSTNNASNTNTNNGORSSMAPDQNGIYIQMLQEFHITNA 367
QY 140 ---FNLEKNTV-RDADATDIFENFASR--LYMATLYKYTV-----TN 176
DB 368 MEGNLNLOKGLKHQVASTKANDPSSRSHITFTLLYKKHODELFRISKMLVDLAGSEN 427
QY 177 VDEFG-----ASFNKLSTFTTG-----LFGWGIRRA 202
DB 428 INRGALNORAKKAGSINOSLITLGRVINALVDKSGHIFPESKUTRLLODSIGNTKTA 487
QY 203 LKQIRSNLPIDIGTESVSRLOHITTSKYDMOTQIPALFKFAKRSLSM-----V 253
DB 488 L--IATISPAKYVSEETCSTLEY-ASKAKNIKKN--POLGSFIMKDLIVNITWEIAKI 541
QY 254 VORLLATVAG---YVDTPWKYKKMYMKLNEMVNVNFIPTKKFFNKELREPSKALKEKYST 310
DB 542 KSDLLSTKRSKEGIYMSODHYKLNLSNDSLEYK-NEV-----QECRELESITSKNAL 591
QY 311 DTKDLFENKIGQGVDFENKEIR-----DPSKALKEKVSNDKDL--FENKIGQGT--- 359
DB 592 LVKDKLTKS---ETIQGONCQIESLKTIDHLRQLODKQHTHEIISFPNNKLOKLEVM 648
QY 360 -----VDF-----INNEIRDPKALIRKYSTGAED--LEFNKIGQGVDFIN 399
DB 649 QMALHDYKRRKELDLNOKFEMHITKEIKKLTLEQLNTMOOESILQSTNI-QPMLDKIK 707
QY 400 NEIDRPSKAL-----IRKRYTPADLDFENKIGQGVDFINKEIRDRPSKAL---I 445
DB 708 NEVTLTKRTOEKRAELMYKDCVKRILNESKPFENVLEK--IDILRVDFQKRYKNIAENL 765
QY 446 RKVSTEADNL 455
DB 766 SDISENNNM 775

RESULT 5
PCT-US93-07261-11
; Sequence 11, Application PC/TUS9307261
```

```
GENERAL INFORMATION:
TITLE OF INVENTION: PIEMP3 MALARIA ANTIGEN, ANALOGS, ANTIBODIES AND USES THEREO
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: John H. C. Blasdale
STREET: One Giralda Farms
CITY: Madison
STATE: New Jersey
COUNTRY: USA
ZIP: 07940-1000
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Macintosh 6.0.5
SOFTWARE: Microsoft Word 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/07261
FILING DATE: 19930805
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/927,531
FILING DATE: 07-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Blasdale, John H. C.
REGISTRATION NUMBER: 31,895
REFERENCE/DOCKET NUMBER: DX0288K
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-822-7398
TELEFAX: 201-822-7039
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 1588 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US93-07261-11

Query Match          5.18; Score 119.5; DB 5; Length 1588;
Best Local Similarity 31.48; Pred. No. 0.045;
Matches 58; Conservative 31; Mismatches 65; Indels 31; Gaps 14;

QY 294 NKEIR-EPSKALKEKYSTDTDLFENKIGQGT---TVDFENKEIRDP-SKALKEKVSNDK 348
DB 1045 NKELRNKGSEGLKENAEIKNEL--QNKGSEGLKENAEIKNELQKNGSGLEKNAEOKNK 1103
QY 349 DLFENKIGQGVDFINNEIRDPKALIRKYSTGAADLE-----NKIGQGT---TVDFI 398
DB 1104 EL-QNKGSEGLKE--NAELK--NKELRNKGSDGLKENAEIKNELRNKGSGLKENAEIK 1158
QY 399 NNEIRDP-SKALIRKYTPADLDFENKIGQGVDFINKEIRDPKALIRKYSTGAED--- 453
DB 1159 NKELRNKGSEGLKENAVYTN-NDLKNDI--QNKDLSNKDKM--NKELRNKGSDGLKENAEIK 1213
QY 454 NLEK 458
DB 1214 ELNK 1218

RESULT 6
PCT-US93-07261-16
; Sequence 16, Application PC/TUS9307261
; GENERAL INFORMATION:
; TITLE OF INVENTION: PIEMP3 MALARIA ANTIGEN, ANALOGS, ANTIBODIES AND USES THEREO
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John H. C. Blasdale
; STREET: One Giralda Farms
; CITY: Madison
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07940-1000
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
```

OPERATING SYSTEM: Macintosh 6.0.5
SOFTWARE: Microsoft Word 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/07261
FILING DATE: 19930805
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/927,531
FILING DATE: 07-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Blasdale, John H. C.
REGISTRATION NUMBER: 31,895
REFERENCE/DOCKET NUMBER: DX0288K
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-822-7039
TELEFAX: 201-822-7039
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 1663 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
STRAIN: Malayan Camp
PCT-US93-07261-16

Query Match 5.1%; Score 119.5; DB 5; Length 1663;
Best Local Similarity 31.4%; Pred. No. 0.049;
Matches 58; Conservative 31; Mismatches 65; Indels 31; Gaps 14;

QY 294 NKIR-EPKALKKDYTDKDFENKIGG---TVDFFKKEIRDP-SKALKKESVNDK 348
DB 1045 NKELRNKSGSGLEKNAELKNKL-QNKGSGLEKNAELKNKLNKSGSEGLKENAEQNK 1103
QY 349 DEFNKIGGTVDFINNEIRDPKALIRKVTGAEDLFE-----NKIGG---TVDFI 398
DB 1104 EL-QNKGSEGLK--NAELK--NKELRNKSGDLKENAELKNKELRNKSGDLKENAELK 1158
QY 399 NNEIRDP-SKALIRKYTTEADLFEFNKIGGTVDFINKEIRDPKALIRKVTGAD--- 453
DB 1159 NKELRNKSGLEKENVYTN-NDLKNNDI--QNKDLNKNKDK--NKELNDISNKNKDK 1213
QY 454 NLEK 458
DB 1214 ELNKK 1218

RESULT 7
US-08-484-105-14
Sequence 14, Application US/08484105
Patent No. 5589341
GENERAL INFORMATION:
APPLICANT: STILLMAN, Bruce
APPLICANT: BELL, Stephen P
APPLICANT: KOBAYASHI, Ryuji
APPLICANT: RINE, Jasper
APPLICANT: FOSS, Margit
APPLICANT: MCNALLY, Francis J
APPLICANT: LAURENSEN, Patricia
APPLICANT: HERKOWITZ, Ira
APPLICANT: LI, Joachim J
APPLICANT: GAVIN, Kimberly
TITLE OF INVENTION: ORIGIN OF REPLICATION COMPLEX GENES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,105
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Osman Ph.D., Richard Aron
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-59032/DJB/RAO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 494-8700
TELEFAX: (415) 494-8771
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 885 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-484-105-14

Query Match 4.7%; Score 111; DB 1; Length 885;
Best Local Similarity 19.3%; Pred. No. 0.12;
Matches 98; Conservative 82; Mismatches 199; Indels 128; Gaps 22;

QY 5 DSVGDVTKTLASSEVSANANVMNSD--MSDYLSAVSDNFAERICSOV----- 53
DB 274 EATSDNEDSLSEYHESKEEPAANSSSDSEDEFDYQSAEELATVEPKKVRSTKPIPI 333
QY 54 -PKGNSCASVSAYMS--RCARODCLTIQSLKYPLAKYQPLTLPDPLYLEAFILEKE 109
DB 334 SPVKSQPLPPSAVSHSPRPFKNIVRAKKAYTPFSKRYKNPIPLND-----IFQRH 388
QY 110 SDANPANSTKRRPMRRRRKNSYFHDVFNLEKRVTD-ADATDIENF-ASRYLYMA 167
DB 389 NNDLDIALEERFPTYSAKKMETIFSKYKKOLNSRNSKEIYKAADFVYLPARENEFA 448
QY 168 TLVYKTYTNVDFGASPFNLSFTTGLFGWGIKRALKOIRSNLPDICT---EHSVRL 224
DB 449 STYLSYSAI-EAGTSTSTIYIAGTGV---GKTLTVREYVK-----DLMSAQKELPRF 499
QY 225 QHT-----TSSYK-----DYMTOIPALPKFAKRFSLMVOQL 257
DB 500 QYIEINGLKTIKASDSYEVFMOKISGEKLTSGAAMESLEFFFNKVPATKKRPVIVLDEL 559
QY 258 LATYAGVDPFPW-YKKY--YMKLKNFY---NRVFTPKKFFNK----- 295
DB 560 DALVSKSQDVYVNFENMATYSMAKLIVAAVANTLDLPERHLGNKISSIGFTPTIMPTGYT 619
QY 296 -EIR-----EPKALKKRVSTDTDLFENKIGGTVDFFNKEIRDP 336
DB 620 HEELRTIINRLKLYNESSTYVDPETGSSYMISDSTI-ETDEEKRKQFSN-----Y 672
QY 337 KALKKESVNDKDLFENKIGGTVDFINNEIRDPKALIRKVTGADL-----FEKFI- 390
DB 673 KRLRLRINPDAIEIASRKIAS-----VSGDVRALKVYKRAVEAYENDYKRLRYERLVN 727
QY 391 -----GGGTVDFINNEIRDPKAL 409
DB 728 SKDTSNGTGNELQSVLEIKHITKAL 754

RESULT 8
US-08-484-106-14
Sequence 14, Application US/08484106
Patent No. 5614618
GENERAL INFORMATION:
APPLICANT: STILLMAN, Bruce
APPLICANT: BELL, Stephen P
APPLICANT: KOBAYASHI, Ryuji

APPLICANT: RINE, Jasper
APPLICANT: FOSS, Margit
APPLICANT: MCNALLY, Francis J
APPLICANT: LAURENSEN, Patricia
APPLICANT: HERSKOWITZ, Iita
APPLICANT: LI, Joachim J
APPLICANT: GAVIN, Kimberly
TITLE OF INVENTION: ORIGIN OF REPLICATION COMPLEX GENES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,106
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Osman Ph.D., Richard Aron
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-59032/DJB/RAO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 494-8700
TELEFAX: (415) 494-8771
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 885 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-484-106-14

Query Match 4.7%; Score 111; DB 1; Length 885;
Best Local Similarity 19.3%; Pred. No. 0.12;
Matches 98; Conservative 82; Mismatches 199; Indels 128; Gaps 22;

QY 5 DSGVDTKTLLAASPSVDSANANAYMIND-MSDYLSAVSDNFAERICQV----- 53
DB 274 EAIISDNESDLSEYHESKEFEANSSSDSEFEEDYQSAEELAIVEPAKKKRSIKPDIP 333
QY 54 -PKGSCSASVAYMS---RCAKQDCLTQSLKYPLEAKYQPLTLPDPQLEAFLPKE 109
DB 334 SPVKQOTPLQPAVHSSPPKFFKNMIVRAKKAYTPPSKRYKKNPKIPDLND----IFQHR 388
QY 110 SDANPANSTKFRFMMFRGRKNHYPHDLVFNLEKNVTRD-ADATDIENF-ASRYLYMA 167
DB 389 NNDLIDIALEERFRIVASAKMETIFSKYKKQKLNRSNKEIYKADFDNYIPARENEFA 448
QY 168 TLYVYTYNVDEFGASFENKLSFTTGLFGWGIKRALKQIIRSNLPDICT--EHSVSRI 224
DB 449 STYLSLYSAI-EAGTSTSIYIAGTGV--GKTLIVREYVK-----DLMTSADQKELPRF 499
QY 225 QHT-----TSSYK-----DYMDQIPALUKKFKRPSLMVYQRL 257
DB 500 QYIEINGLKIYASDSYEFWOKISGEKLTSGAAMESTLEFYENKVPATKKRPILVLLDEL 559
QY 258 LATVAGYVDTW-YKKW-YMKLNFMV--NRVFIPTAKKFEK----- 295
DB 560 DALVSKSQDVMNFMFMATYSNAKLIVAVANTLDPERHLGKISSRIGFTPRIMFTGYT 619
QY 296 --EIR-----EPKALKKYSTDTKDLFENKIGQTYVDFENKEIRDPDS 336
DB 620 HELRTIINLRUKYLNESFYVDPETGSSYMTSPDSSTI-ETDEEKKRDRDFSN-----Y 672

QY 337 KALKEKVSNDADKLFENKIGQTVDFINNEIRDPKALIRKYSTGAEDL-----FENKI- 390
DB 673 KRKLKINPDALIEIASRKIAS-----VSGDYRALVAVRAVEYAEANDYKRLRYERLVN 727
QY 391 -----GQTVDFINNEIRDPKAL 409
DB 728 SKKDTSGNGTGNELQSVETKIHITKAL 754

RESULT 9
US-08-453-848-9
Sequence 9, Application US/08453848
Patent No. 5858368
GENERAL INFORMATION:
APPLICANT: Smith, Gale Eugene
APPLICANT: VOLOVITZ, Franklin
APPLICANT: WILKINSON, Bethanie Eident
APPLICANT: VOZNESENSKY, Andrei I.
APPLICANT: HACKETT, Craig Stanway
TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
CITY: Atlanta
STATE: GA
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/453,848
FILING DATE: 30-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/120,607
FILING DATE: 13-SEPT-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MGS101CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-873-8795
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 572 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Influenza virus
INDIVIDUAL ISOLATE: A/Texas/36/91 rHA
NAME/KEY: ACPV 61K protein signal sequence
LOCATION: 1 to 18
FEATURE:
NAME/KEY: mature rHA
LOCATION: 19 to 554
US-08-453-848-9

Query Match 4.5%; Score 105.5; DB 2; Length 572;

Best Local Similarity 22.3%; Pred. No. 0.19;
Matches 60; Conservative 37; Mismatches 87; Indels 85; Gaps 14;

```

OY 195 FGMGIRKALKOIIIRSNPLDIGTEHSVSRLOHTSS--YKDYMDTOIPALPKFAKRSLSM 252
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 286 FGSG-----ITSNMSBDCDAKCOPOGAINSSLPFQVNHPTTIGCEPKYVYSTKLR 338
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 253 VV-----ORLATVAGYVDFPW---YKKWY-----MKLKN 279
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 339 MVTGLRNIPISQSRGLGALAGFIEGWTGMIDGWYGIHHONEGSGYADQKSTQNAIN 398
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 280 FMVNRV-----FIPTRKFFNKIREPSKALKEKYSTDTKD-----LEFNK 319
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 399 GITNKVSVIEKMTQFTAVGKEFNK-LERRMENLNKKVDGFLDIWTYNAELLVLEEN- 456
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 320 IGGTVEFNFKEIRDPKALKKEKVSNDAKDLFENKIGOGTYDF--INNEIRDSKALIR 376
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 457 -GR-TLDFHDSNVKNLYEKYSQLKNNAKE-----IGNGCEFFYHKCNE-----CME 502
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 377 KVTSGAEDL---FENKIGOGTYDFINNE 401
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 503 SVKNGTYDYPKYSSESKLNKRGIDGVKLE 531
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

```

RESULT 10
US-09-169-027-9
Sequence 9, Application US/09169027
Patent No. 6245532

GENERAL INFORMATION:

APPLICANT: Smith, Gale Eugene
APPLICANT: Volkovitz, Franklin
APPLICANT: Wilkinson, Bethanie Eldent
APPLICANT: Voznesensky, Andrei I.
APPLICANT: Hackett, Craig Stanway
TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patricia L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
City: Atlanta
STATE: GA
COUNTRY: USA
ZIP: 30309-3450

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,027
FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/453,848
FILING DATE: 30-MAY-1995
APPLICATION NUMBER: 08/120,607
FILING DATE: 13-SEPT-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patricia L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MGS101CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-873-8795

INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:
LENGTH: 572 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide

HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Influenza virus
INDIVIDUAL ISOLATE: A/Texas/36/91 rHA

FEATURE:

NAME/KEY: AcNPV 61k protein signal sequence
LOCATION: 1 to 18
FEATURE:
NAME/KEY: mature rHA
LOCATION: 19 to 534
US-09-169-027-9

Query Match 4.5%; Score 105.5; DB 4; Length 572;

Best Local Similarity 22.3%; Pred. No. 0.19;
Matches 60; Conservative 37; Mismatches 87; Indels 85; Gaps 14;

```

OY 195 FGMGIRKALKOIIIRSNPLDIGTEHSVSRLOHTSS--YKDYMDTOIPALPKFAKRSLSM 252
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 286 FGSG-----ITSNMSBDCDAKCOPOGAINSSLPFQVNHPTTIGCEPKYVYSTKLR 338
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 253 VV-----ORLATVAGYVDFPW---YKKWY-----MKLKN 279
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 339 MVTGLRNIPISQSRGLGALAGFIEGWTGMIDGWYGIHHONEGSGYADQKSTQNAIN 398
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 280 FMVNRV-----FIPTRKFFNKIREPSKALKEKYSTDTKD-----LEFNK 319
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 399 GITNKVSVIEKMTQFTAVGKEFNK-LERRMENLNKKVDGFLDIWTYNAELLVLEEN- 456
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 320 IGGTVEFNFKEIRDPKALKKEKVSNDAKDLFENKIGOGTYDF--INNEIRDSKALIR 376
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 457 -GR-TLDFHDSNVKNLYEKYSQLKNNAKE-----IGNGCEFFYHKCNE-----CME 502
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
OY 377 KVTSGAEDL---FENKIGOGTYDFINNE 401
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 503 SVKNGTYDYPKYSSESKLNKRGIDGVKLE 531
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

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RESULT 11
US-09-091-117-2

Sequence 2, Application US/09091117
Patent No. 6171589

GENERAL INFORMATION:

APPLICANT: The University of Melbourne
TITLE OF INVENTION: Mycoplasma Recombinant Polypeptides and
TITLE OF INVENTION: Vaccines
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: GREENLEE, WINNER and SULLIVAN P. C.
STREET: 5370 Manhattan Circle, Suite 201
City: Boulder
STATE: Colorado
COUNTRY: United States of America
ZIP: 80303

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/091,117
FILING DATE: 12 JUNE 1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU96/00803
FILING DATE: 13-DEC-1996

PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU PN7127
FILING DATE: 13-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: WINNER, Ellen P.
TELECOMMUNICATION INFORMATION:
TELEPHONE: +1 303 499 8080


```

; EARLIER APPLICATION NUMBER: US 08/694,869
; EARLIER FILING DATE: 1996-08-09
; EARLIER APPLICATION NUMBER: PCT/IB97/01338
; EARLIER FILING DATE: 1997-08-13
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1871
; TYPE: PRT
; ORGANISM: sugarcane bacilliform virus
US-09-349-546-1

```

```

Query Match          4.4%; Score 104; DB 3; Length 1871;
Best Local Similarity 19.9%; Pred. No. 1.6;
Matches 84; Conservative 60; Mismatches 140; Indels 138; Gaps 21;

```

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QY 83 YPLEKKYOP-----LTLPPYOLEAFLFKESDANPAKSTERFPMR 125
DB 81 FPAEVLGPRSDDIHKVKGSSSODILLIDNOLDMTFI-----KEETFEOL 128
QY 126 FRGCKNHSYFHD-----LVFNLEKVTYRDADATDIE-NFASRYL 164
DB 129 EQAGLR--YIHPGLIAYRIOPLHPDMSGLVFIYFROIRODNPRLGAMETIDSKGPOMV 186
QY 165 YMATLYYKTYTNVDEFGASFNNKLSFTT---GLFGW-GIKRALKQIIRSNLPDIDGTEHS 220
DB 187 YVINSFMTTIDK-----FFHGIDLTIVKVGEGWQ-----BANLHIE---RLI 227
QY 221 VSRLOHTSSKYDMDIOIPALPKAFKFSLMVQRLATVAGYVDTPWYKWKYKLNKF 280
DB 228 TARLSTNTNVFKY---KVEGVASTIKTKGKALEATKSVKVGIRGEWN----- 274
QY 281 MWNVFIPTKKEIREPSKALKEKYSTDKDLEFNKIGQTVDFNKEIRDPKALK 340
DB 275 -----ILPSKL---EVMQPT-----KVQIT-----ENYDGTISRFNTNYGASSKRYE 316
QY 341 EKVSNDK-KDLFENKIGQTVDFINNEIRDPKALKIRKYSTG---ADLFEKNIGQTV 395
DB 317 HNSDEAVMALFEDEEEDDITFLNR-----ILSKYSTQOKVYGEERSPEEQIIS 368
QY 396 DFINN-----EIRDPKALKIRKYTEADDLFENKIGQTVDFINKIRDPKALKIRKY 448
DB 369 DFLKTEBAYPAEIEEYPALRR-----LEOLMKTV-----VQIEIEPSQVEAKM 416
QY 449 ST 450
DB 417 ST 418

RESULT 14
US-08-688-988-8
; Sequence 8, Application US/08688988B
; Patent No. 6096545
; GENERAL INFORMATION:
; APPLICANT: Lefebvre, Daniel D.
; APPLICANT: Malbool, Mohammad A.
; TITLE OF INVENTION: PHOSPHATE STARVATION-INDUCIBLE PROTEINS
; FILE REFERENCE: P196-03
; CURRENT APPLICATION NUMBER: US/08/688,988B
; CURRENT FILING DATE: 1996-07-31
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 437
; TYPE: PRT
; ORGANISM: Brassica nigra
US-08-688-988-8

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Query Match          4.4%; Score 103.5; DB 3; Length 437;
Best Local Similarity 20.5%; Pred. No. 0.2;
Matches 62; Conservative 40; Mismatches 86; Indels 115; Gaps 15;
QY 181 GASFNKLSTFTGLFGWGIKALKQIIRSNLPDIDGTEHSVRLQHT-TSSYKDY----M 235

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DB 201 GASIDRALDF---ILGW-----HLOTVMGDVPOIMK 229
QY 226 DFOIPALPKAFKRFSLMVVORLLATVAGYVDPWYKWKYKLNKFNVRVLEPFGKFFNK 295
DB 230 DIVGRLPKFTE-----AQKAKLKSADPVLNLY-----TSMFSN 265
QY 296 EIREPSKA-----LKEKYSTDKDLEFNKIGQ---GVDFENKIRDPKALKREKVSND 346
DB 266 HLEKDPKAPRMWQDSLINMETKNAYSIGSKPITGALPVFARGFRSLKRYKQYGNP 325
QY 347 AKDLFENKIGQ-----GVVD-----FINNEIRDPKALK-IRKVS-TGA----- 382
DB 336 EIMIMENYGEELGAADSIEVGTADHNRRYYLQRLHLSMNEAICIDKVNVTGYFVWSLLD 385
QY 383 -----EDLFENKIGQTVDFINNEIRDPKALKIRKYTEADDLFENKIGQTVDFINKEIR 438
DB 386 NFEWODGKNNRGLYIDFKNNLTR-----YENESGRYYKDFLSQSVR 428
QY 439 DPS 441
DB 429 -PS 430

```

```

RESULT 15
US-08-642-846-2
; Sequence 2, Application US/08642846
; Patent No. 5886151
; GENERAL INFORMATION:
; APPLICANT: HOSTETTER, MARGARET K.
; APPLICANT: GALE, CHERYL A.
; APPLICANT: BENDEL, CATHERINE M.
; APPLICANT: TAO, NIAN-JUN
; APPLICANT: KENDRICK, KATHLEEN
; TITLE OF INVENTION: CANDIDA ALBICANS GENE, INTEGRIN-LIKE
; TITLE OF INVENTION: PROTEIN, ANTIBODIES, AND METHODS OF USE
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: MEETING, RAASCH, GERHARDT & SCHWAPPACH, P. A.
; STREET: 119 NORTH FOURTH STREET, SUITE 203
; CITY: MINNEAPOLIS
; STATE: MINNESOTA
; COUNTRY: USA
; ZIP: 55401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/642,846
; FILING DATE: 03-MAY-1996
; CLASSIFICATION: 42A
; ATTORNEY/AGENT INFORMATION:
; NAME: MEETING, ANN M.
; REGISTRATION NUMBER: 33,977
; REFERENCE/DOCKET NUMBER: 110,00280101
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-305-1217
; TELEFAX: 612-305-1228
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1664 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-642-846-2

```

```

Query Match          4.3%; Score 102; DB 2; Length 1664;
Best Local Similarity 20.9%; Pred. No. 2;
Matches 113; Conservative 64; Mismatches 214; Indels 150; Gaps 29;

```



```
STATE: OHIO
COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/799,138
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: GOLTRICK, MARY E
REGISTRATION NUMBER: 34,829
REFERENCE/DOCKET NUMBER: 22727/00139
TELEPHONE: (216) 622-8458
TELEFAX: (216) 241-0816
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-799-138-4

Query Match 4.3%; Score 101.5; DB 2; Length 610;
Best Local Similarity 17.5%; Pred. No. 0.5;
Matches 68; Conservative 67; Mismatches 127; Indels 127; Gaps 17;

QY 139 VFNLEKNTVRDADTDIENFASRYLYMATLYKTYTVNDEFGASFNNKLSFTTGLFGWG 198
| | : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 240 VVNRSGQDINKNVDMIAARRREREY-FNSTPEYKHLAN--RMGSEHLAKM----- 286
QY 199 IKRALKOIIRSNLPDIDGTEHSVS-----LQHTSS-- 230
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 287 LSKHLETVYKSRIP--GIQSLINKTIALEAELTRLGKPVADAGKLYAIMEICRSPD 343
QY 231 --YKDYM-----DTQIPALPK--FAKRSFSLMVQRLATVAGY--VDP 268
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 344 QIFKHLDGVRGDKITNVFDNOLPALKRLQFQKLSMENIRKLITFADGYOHLIAP 403
QY 269 WKKWYMKL-KNFVNRVFIPTKFFNKIREPSKALKEKYSTDKDLFENKIGGTVDF 327
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 404 --EGYRRLIESSLT-----IRGPAEAVDAVHSLKDLVH----- 438
QY 328 FNKEIRDSKALKEKVSNDAKDLFENKIGGTVDFINNEIRDPKALIRKYSTGADLFE 387
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 439 -----KAISFTLDLKQYPGRLVEVGAADVSL-ERMDESK-----RATLQLV 481
QY 388 NKIGGTVDFINNEIRDPKSA--LIRKYTEADDLFENKIGGTVDFINK----- 435
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 482 MECGYLVDFEFRKLPODVKGNPHTSIFDRYNDISYLRIGTTILSYVMVCATLRNSIP 541
QY 436 -----EIRDPKALIRKYSTEADNLEK 458
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 542 KSIYVCQVREAKRSLDHFETELGKMETK 570

RESULT 18
US-09-392-362-4
Sequence 4, Application US/09392362
Patent No. 6248868
GENERAL INFORMATION:
APPLICANT: Verma, Desh Pal
TITLE OF INVENTION: PHRAGMOPLASTIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: CALFE, HALTER & GRISWOLD
STREET: 800 SUPERIOR AVENUE
CITY: CLEVELAND
STATE: OHIO
```

```
COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/392,362
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/799,138
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: GOLTRICK, MARY E
REGISTRATION NUMBER: 34,829
REFERENCE/DOCKET NUMBER: 22727/00139
TELEPHONE: (216) 622-8458
TELEFAX: (216) 241-0816
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-392-362-4

Query Match 4.3%; Score 101.5; DB 4; Length 610;
Best Local Similarity 17.5%; Pred. No. 0.5;
Matches 68; Conservative 67; Mismatches 127; Indels 127; Gaps 17;

QY 139 VFNLEKNTVRDADTDIENFASRYLYMATLYKTYTVNDEFGASFNNKLSFTTGLFGWG 198
| | : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 240 VVNRSGQDINKNVDMIAARRREREY-FNSTPEYKHLAN--RMGSEHLAKM----- 286
QY 199 IKRALKOIIRSNLPDIDGTEHSVS-----LQHTSS-- 230
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 287 LSKHLETVYKSRIP--GIQSLINKTIALEAELTRLGKPVADAGKLYAIMEICRSPD 343
QY 231 --YKDYM-----DTQIPALPK--FAKRSFSLMVQRLATVAGY--VDP 268
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 344 QIFKHLDGVRGDKITNVFDNOLPALKRLQFQKLSMENIRKLITFADGYOHLIAP 403
QY 269 WKKWYMKL-KNFVNRVFIPTKFFNKIREPSKALKEKYSTDKDLFENKIGGTVDF 327
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 404 --EGYRRLIESSLT-----IRGPAEAVDAVHSLKDLVH----- 438
QY 328 FNKEIRDSKALKEKVSNDAKDLFENKIGGTVDFINNEIRDPKALIRKYSTGADLFE 387
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 439 -----KAISFTLDLKQYPGRLVEVGAADVSL-ERMDESK-----RATLQLV 481
QY 388 NKIGGTVDFINNEIRDPKSA--LIRKYTEADDLFENKIGGTVDFINK----- 435
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 482 MECGYLVDFEFRKLPODVKGNPHTSIFDRYNDISYLRIGTTILSYVMVCATLRNSIP 541
QY 436 -----EIRDPKALIRKYSTEADNLEK 458
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
| : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
DB 542 KSIYVCQVREAKRSLDHFETELGKMETK 570

RESULT 19
US-08-910-551B-2
Sequence 2, Application US/08910551B
Patent No. 5910571
GENERAL INFORMATION:
APPLICANT: SYLVAIN Moineau, Barbara
APPLICANT: J. Hollet, Peter A. Vandenberg,
APPLICANT: Ebenezer R. Vedamuthu, Jeffrey K.
APPLICANT: Kondo
TITLE OF INVENTION: DNA Encoding Phage
ABORTIVE Infection Protein
```

1 TITLE OF INVENTION: From Lactococcus
2 TITLE OF INVENTION: Lactis, and Method of use thereof
3 NUMBER OF SEQUENCES: 2
4 CORRESPONDENCE ADDRESS:
5 ADDRESS: Ian C. McLeod
6 STREET: 2190 Commons Parkway
7 CITY: Okemos
8 STATE: Michigan
9 COUNTRY: USA
10 ZIP: 48864
11 COMPUTER READABLE FORM:
12 MEDIUM TYPE: Diskette 5.25 inch,
13 MEDIUM TYPE: 360 Kb storage
14 COMPUTER: Acer
15 OPERATING SYSTEM: MS-DOS (version 4)
16 SOFTWARE: Wordperfect 5.1
17 CURRENT APPLICATION DATA:
18 APPLICATION NUMBER: US/08/910,551B
19 FILING DATE: August 11, 1997
20 CLASSIFICATION: 435
21 PRIOR APPLICATION DATA:
22 APPLICATION NUMBER: 08/565,907
23 FILING DATE: December 1, 1995
24 ATTORNEY/AGENT INFORMATION:
25 NAME: Ian C. McLeod
26 REGISTRATION NUMBER: 20,931
27 REFERENCE/DOCKET NUMBER: Quest 4.1-158
28 TELECOMMUNICATION INFORMATION:
29 TELEPHONE: (517) 347-4100
30 TELEFAX: (517) 347-4103
31 TELEX: No. 5910571e
32 INFORMATION FOR SEQ ID NO: 2:
33 SEQUENCE CHARACTERISTICS:
34 LENGTH: 599
35 TYPE: Amino Acid
36 STRANDEDNESS: Single
37 TOPOLOGY: Linear
38 MOLECULE TYPE: Protein
39 DESCRIPTION: No
40 HYPOTHEICAL: No
41 ANTI-SENSE: NO
42 FRAGMENT TYPE: N/A
43 ORIGINAL SOURCE:
44 ORGANISM: Lactococcus lactis
45 STRAIN:
46 INDIVIDUAL ISOLATE: W1
47 DEVELOPMENTAL STAGE: N/A
48 HAPLOTYPE: N/A
49 TISSUE TYPE: N/A
50 CELL TYPE: bacterium
51 CELL LINE: N/A
52 ORGANELLS: N/A
53 IMMEDIATE SOURCE:
54 LIBRARY: genomic
55 CLONE: SMQ-20
56 POSITION IN GENOME: N/A
57 FEATURE:
58 NAME/KEY: phage abortive infection
59 LOCATION: N/A
60 IDENTIFICATION METHOD: based upon DNA
61 OTHER INFORMATION: phage resistance
62 OTHER INFORMATION: enzyme able
63 PUBLICATION INFORMATION: N/A
64 US-08-910-551B-2
65
66 Query Match 4.2%; Score 100; DB 2; Length 599;
67 Best Local Similarity 19.4%; Pred. No. 0.67; Indels 184; Gaps 21;
68 Matches 91; Conservative 56; Mismatches 137;
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318 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
319 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
320 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
321 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
322 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
323 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
324 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
325 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
326 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
327 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
328 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
329 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
330 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
331 SYMALTYVTCNKKKEFIEYFDNKKSTSKFFNQLNFDPKTOETOTLYGCKRLHDL 164
332 SYMALTYVTCNKKKEFIEYFDNKKST

OY 454 NLLEK 458
 Db 2115 NLIDK 2119

RESULT 21
 US-08-688-988-10
 : Sequence 10, Application US/08688988B
 : Patent No. 6096545
 : GENERAL INFORMATION:
 : APPLICANT: Lefebvre, Daniel D.
 : APPLICANT: Malboobi, Mohammad A.
 : TITLE OF INVENTION: PHOSPHATE STARVATION-INDUCIBLE PROTEINS
 : FILE REFERENCE: PPL96-03
 : CURRENT APPLICATION NUMBER: US/08/688,988B
 : CURRENT FILING DATE: 1996-07-31
 : NUMBER OF SEQ ID NOS: 48
 : SOFTWARE: FastSeq for Windows Version 3.0
 : SEQ ID NO 10
 : LENGTH: 525
 : TYPE: PR
 : ORGANISM: Arabidopsis Thaliana
 US-08-688-988-10

Query Match 4.1%; Score 97.5; DB 3; Length 525;
 Best Local Similarity 17.7%; Pred. No. 0.93;
 Matches 77; Conservative 76; Mismatches 132; Indels 151; Gaps 21;

OY 123 WMR-FRRGKMH-----SYFDLVFNLEKNTTRADATDIEFNFSRLYMATLYKKT 173
 Db 117 WPIFIPGRKEKGVSAQGVQFYHDLIDELIKNGITP-----FVYVFHMDT 161
 OY 174 YTNV-DEFGA-----SFRNKLSEFTTGLFGWGIRKAL--KOIIRSNLPIDIG----- 216
 Db 162 PQGLEDEYGFLESRIVKDPREYADFVFGYGGKVKHMITFENEPWFSHAGDYGGKAPG 221
 OY 217 --TEHSYRLOHTTSKQKDMQO-----IPALPKFKRF 249
 Db 222 RSSSYNAKQDGRSGEALVTHNLISHAEVAYRKECKGKIGIAHSPAMEAH 281
 OY 250 SL-----AVVORLATVAG--YVDTPWKMKYMLKMFVNRV--FIPTKK----- 291
 Db 282 DLADSDGASIDRALDPILOHMDITTFGDPYQIMKDIYGHRLPKFTTEOKAKLAKASTDF 341
 OY 292 -----FENKEIREPSKALKERVSTDTKDFENKIGQ-----GTVDFFNKIR 333
 Db 342 VGLNVTYSVFSNHLKRPDS-KPRMODSLITWESKNAQVYAGSKPDLTAALNYSRGR 400
 OY 334 DPKALKREKSNDAKDLFENKIGQ-----GTVD-----FINNEIRDPKAL-IRK 377
 Db 401 SLTKYIKDKYANPEIMMENGEGEELGASDVAVGTADHNRKYYLQRIHLLSMOEAVCIDK 460
 OY 378 VS-TGA-----EDLFENKIGQGVDFINNEIRDPKALIRKVVYTEADDLFENKI 425
 Db 461 VNTGTGVWVSLDNEFQMDYKKNRFGLYYDFKNNLTR-----YKES 503

OY 426 GGQTVDFINKIRDP 441
 Db 504 GKYYKDELSQGV-PS 518

RESULT 22
 PCT-US93-03077-1
 : Sequence 1, Application PC/TUS9303077
 : GENERAL INFORMATION:
 : APPLICANT: Board of Regents, The University of Texas System
 : APPLICANT: Gaynor, Richard B.
 : APPLICANT: Wu, Foon Kin
 : TITLE OF INVENTION: PROTEIN CELLULAR FACTOR USEFUL FOR
 : REGULATING GENE EXPRESSION
 : NUMBER OF SEQUENCES: 7
 : CORRESPONDENCE ADDRESS:
 : ADDRESS: Arnold White & Durkee

STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US93/03077
 FILING DATE: 19930331
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/862,025
 FILING DATE: April 2, 1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Kammerer, Patricia A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: UTPD270PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 713-787-1540
 TELEFAX: 713-749-2679
 TELEX:
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1093 amino acids
 TYPE: AMINO ACID
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 PCT-US93-03077-1

Query Match 4.1%; Score 97.5; DB 5; Length 1093;
 Best Local Similarity 20.1%; Pred. No. 2.8; Indels 129; Gaps 20;
 Matches 96; Conservative 67; Mismatches 194;

OY 9 DVTETLLASESV--DSANAYMINSDMSDYL-SAVSDNEAFERICQVPGKSGCSASVS 64
 Db 379 EVNLTIVIPTEAEAMESGSRATPVNCEOPDILVSSPIINGQTVLKV--AEQCEPAES 436
 OY 65 AYMSRCAKOD-CLTLQSLKIPLEAK-YQPLTL-PDPIQLEAFLFRE-----SDANPA 115
 Db 437 QPEALSEKEDEVCYVEFLNEKLEKREAQLLSKEKALLBEAFNLDDEMFRVKESSSI 496
 OY 116 NSTEKRFMRPRRGKNSYFHDVFNLEKNV-----TRDADATDIEFNFSRLYMATLY 170
 Db 497 SSLKDEFTQRIAEA-----EKKVQLACKERDAKKEINNIKE----- 534
 OY 171 YKTYTNVDEGASFENKLSFTTGLFGWGIRKALKOIRSNL-----PLDIGTEHSVRLQ 225
 Db 535 LATNLSESEFADILKEKDEQIRGLMEGEEKLSQQLHNSITIKKLRKDKENEMVAKLN 594
 OY 226 HTTSYKYDMDTOIPLPKFAKRSIMVQRLATVAGYVDTPWKMKYMLKMFVNRV 285
 Db 595 KKYAELEEL-----QHLKQVLDG----- 613
 OY 286 FIPTKKFEFNKEIREPSKALKERVSTDTKDL-----FENKIGQGVDFENKIRDP 334
 Db 614 ---KEEVERKQRENINIKLMSVROEKDGRLOVMDLEBEKRSIOALADSAYKELTD 669
 OY 335 PSKALKEKVSNDKDLFENKIGQGVDFINNEI--RDPKALIRKVSFGAEDLFENKIGQ 392
 Db 670 LHKR-----NAKND-----SEAGEAALSREMAKAKELSAALEKAGEERQOQETIAIQ 717
 OY 393 GYVDFINNEIRDPKALIRKVVYTEADDLFENKIGQ-----GTVDINKKEIRDPKALIRK 447
 Db 718 --VGDLRLAORTFOAARK-----EDYLRLHETIGELQORIQEAENRNOELQSQSVSTTRP 770
 OY 448 VSTEADNL 455
 Db 771 LRLQIENL 778

RESULT 23
US-08-973-462-8
Sequence 8, Application US/08973462B
Patent No. 6191270
GENERAL INFORMATION:
APPLICANT: DRULHE, PIERRE
APPLICANT: DAUBERSES, PIERRE
TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES
FILE REFERENCE: 0660-0125-0 PCT
CURRENT APPLICATION NUMBER: US/08/973,462B
CURRENT FILING DATE: 1998-02-06
EARLIER APPLICATION NUMBER: PCT/FR96/00894
EARLIER FILING DATE: 1996-06-12
EARLIER APPLICATION NUMBER: FR 95/07007
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 1786
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Polypeptide
US-08-973-462-8

Query Match 4.1%; Score 97.5; DB 4; Length 1786;
Best Local Similarity 20.1%; Pred. No. 5.8;
Matches 80; Conservative 76; Mismatches 138; Indels 105; Gaps 20;

QY 109 ESDANPANSTKRRFMRFRGKNHSYFDLVEN-LLEK-NTYRDADTDIENFASRYLYM 166
DB 962 ESNENVAENLEK-----LNBYFNYVLKVEEVEISGESLEN----- 999
QY 167 ATLYKTYTVDGFGAFENKL-----SFTGLFGWGIRAKKOIIRSNLPDIDGT 217
DB 1000 -----NEMDKAFSEIFDVKGIQENLNLGMF-----RSIETSI-----VLOS 1037
QY 218 EHSVSRLOHITTSYKYVDYDIOIPALPKAKRPSL-----WVQQLLATVAGYVDTPTMK 271
DB 1038 EEKVDLNNVSVSLIDNLENKEGLNKLNIISTEGVQETVEHEQNVYDVDPVPMK 1097
QY 272 KMYKMLKNFM--VNRVFIPTKFFNKE-----IRE-PSKALKKYSTDTKDLFENKIGOG 323
DB 1098 DQFGLINLHAGLKEKMFNLEDVFKSESDVITVEIKDEPQKKEKRETVSIE-EMEN 1156
QY 324 TVDFPNKEIRDP-----KALKE--KVSNDADLFEN-KIGOGTVDFINNEIR---DPSK 372
DB 1157 IVDVLEEKEDLTJRMIDAVEESIEISSKKEETESIKDKREKOVSLVVEEVDNDMDSEV 1216
QY 373 ALIRKVSAGADLFENKIGOGTVDFINNEIRDPKALIRKYV---TEAD---DLFENKI 425
DB 1217 EKVELKMEELMKDAV-----EINDITSKLIETQELNEVADLTKMEKLE 1266
QY 426 GOGTVDFINKEIRDPKALIRKV-----STEADNILE 457
DB 1267 LEKALSEDSKEIIDAOKDTLEKVIIEEHDTITTDVEVE 1305

RESULT 24
US-08-799-138-6
Sequence 6, Application US/08799138
Patent No. 5994053
GENERAL INFORMATION:
APPLICANT: Verma, Desh Pal
TITLE OF INVENTION: PHRAGMOPLASTIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: CALFEET, HALTER & GRISWOLD
STREET: 800 SUPERIOR AVENUE
CITY: CLEVELAND
STATE: OHIO

COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/799,138
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: GOLBRICK, MARY E
REGISTRATION NUMBER: 34,829
REFERENCE/DOCKET NUMBER: 22727/00139
TELECOMMUNICATION INFORMATION:
TELEPHONE: (216) 622-8458
TELEFAX: (216) 241-0816
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-799-138-6

Query Match 4.1%; Score 97; DB 2; Length 610;
Best Local Similarity 17.9%; Pred. No. 1.3;
Matches 63; Conservative 63; Mismatches 125; Indels 100; Gaps 16;

QY 139 VFNLEKNVTRDADTDIENFASRYLYMATLYKTYTVDGFGAFENLSFTTGLFGWG 198
DB 240 VVNRSGQODINKVNDIARRRERER-FNSTPEYKHLAN--RNGSEILAM----- 286
QY 199 IKRAIKOIRSNLPDIDGTEHSVSR-----LQHTTS-- 230
DB 287 LSKHLETVYKSKIP--GIQSLINKTIALEAELTRKGPVADAGGKLYAIMEICRSFD 343
QY 231 --YKDYM-----DTQIPALPK--PAKRSEIATVVRLLATVAGY---VDPP 268
DB 344 QIFKDLHGVRPGOKIYNVFNOLPALKRLQFDKQSLMENIRLITEADGIGPHLNP 403
QY 269 WYKMYKMLKNFMVNRVFIPTKFFNKEIRPSKALKKYSTDTKDL-----FENKIGOG 323
DB 404 --EGQYRRLIESLTIIRPASAVID-AVHSLKDLVHAMSETIDLKQYPLGRVVGNA 460
QY 324 TVDFPNKEIRDPKALKKEKVSNDADLFENKIGOGTVDFINNEIRDPKSA--LIRKVSFG 381
DB 461 SVDSLSLR-MRDESK-----RATQLVDMCEGYLTVDFFRRLPDVDKGGNPTHSICDR 512
QY 382 AEDLFENKIGOGTVDFINN-----EIRDPKALIRKYVTE 416
DB 513 YNDSYLRIGITITLSTVNVWCATLHRSIPKSIYVCVVRKAKRSLDHPFTE 563

RESULT 25
US-09-392-362-6
Sequence 6, Application US/09392362
Patent No. 624868
GENERAL INFORMATION:
APPLICANT: Verma, Desh Pal
TITLE OF INVENTION: PHRAGMOPLASTIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: CALFEET, HALTER & GRISWOLD
STREET: 800 SUPERIOR AVENUE
CITY: CLEVELAND
STATE: OHIO
COUNTRY: USA
ZIP: 44114
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible


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1      RESULT 27
2      PCT-US94-01149-32
3      : Sequence 32, Application PC/TUS9401149
4      :
5      : GENERAL INFORMATION:
6      :
7      : APPLICANT: Shatzman, Allan
8      : APPLICANT: Scott, Miller
9      : APPLICANT: Dillon, Susan B.
10     : APPLICANT: Kane, James
11     : TITLE OF INVENTION: Vaccinal Polypeptides
12     : NUMBER OF SEQUENCES: 72
13     : CORRESPONDENCE ADDRESS:
14     :
15     : ADDRESSEE: SmithKline Beecham Corporation - Corporate
16     : ADDRESSEE: Patents
17     : STREET: U.S. Mailcode UW2220 - 709 Swedeland Road
18     : CITY: King of Prussia
19     : STATE: Pennsylvania
20     : COUNTRY: USA
21     : ZIP: 19406-2799
22     :
23     : COMPUTER READABLE FORM:
24     :
25     : MEDIUM TYPE: Floppy disk
26     : COMPUTER: IBM PC compatible
27     : OPERATING SYSTEM: PC-DOS/MS-DOS
28     : SOFTWARE: Patentin Release #1.0, Version #1.25
29     : CURRENT APPLICATION DATA:
30     : APPLICATION NUMBER: PCT/US94/01149
31     : FILING DATE:
32     : CLASSIFICATION:
33     :
34     : PRIOR APPLICATION DATA:
35     : APPLICATION NUMBER: US 149,150
36     : FILING DATE: 05-NOV-1993
37     :
38     : PRIOR APPLICATION DATA:
39     : APPLICATION NUMBER: US 013,415
40     : FILING DATE: 01-FEB-1993
41     :
42     : PRIOR APPLICATION DATA:
43     : APPLICATION NUMBER: US 108,914
44     : FILING DATE: 18-AUG-1993
45     :
46     : PRIOR APPLICATION DATA:
47     : APPLICATION NUMBER: US 837,773
48     : FILING DATE: 18-FEB-1992
49     :
50     : PRIOR APPLICATION DATA:
51     : APPLICATION NUMBER: US 751,896
52     : FILING DATE: 30-AUG-1991
53     :
54     : PRIOR APPLICATION DATA:
55     : APPLICATION NUMBER: US 387,200
56     :

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Query March 4.1%: Score 96.5; DB 5; Length 304;
Best Local Similarity 20.9%: Pred. No. 0.51;
Matches 60; Conservative 38; Mismatches 84; Indels 105; Gaps 14;

QY 189 SFTTGLFGMGKIRAL-----KQIIR---SNLPDIDGT-----EHSVSR 223
      |||:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 8 SFYDCCFLMHVKKRRKADDELGADAPFLDRRLRRQKSLRGSGSTLGIETATRAGQIVRR 67
QY 224 LQHTTSSKIDYMDIQIPALPKFAKRFSLMVYORLLATYAGYDFTW---YKRWY----- 274
      :|||:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 68 ILKEESDEALMTMOIPG-----LFGALAGFEGGWTGMDISGYGHNON 112
QY 275 -----MKLKFNVRV-----PIPKFFENKEIRPSKALKESVSD 311
      |||:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 113 EOGSGYAADQKSTONALINGITNKVNSYLEKNNIOPTAVGKEPK-LERKEMLNKKVDDG 171
QY 312 TKD-----LFENKIGOGTVDFENKEIRDPSPKALKEKYSNDAKDLFENKIGOGTVD 361
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 172 FLDIWTYNAELLVLEEN---ERTIDFHDNSVKNLYEKKVSGQKLNNAKE-----IGNGCFE 223
QY 362 F---INNEIRDPSPKALIRKYSTGADL---FENKIGOGTVDFINNE 401
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 224 FYAKCDNE-----CMESVNRNGTYDYPKYSSESKLNRKDYGVXLE 263

RESULT 28
US-08-471-033--32
; Sequence 32, Application US/08471033
; Patent No. 5770696
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory W
; APPLICANT: Koziel, Michael G
; APPLICANT: Mullins, Martha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalin M
; APPLICANT: Kostichka, N. Kristly
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J
; TITLE OF INVENTION: No. 5770696el Pesticidal Proteins and Strains
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: NY
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30B
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,033
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/314,594
; FILING DATE: 09-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/218,018
; FILING DATE: 23-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/037,057
; FILING DATE: 25-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pace, Gary M.
; REGISTRATION NUMBER: P-40,403
; REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV7 - SOLV3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8682
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-471-033-32

Query Match          4.1%; Score 96.5; DB 1; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

QY 4 SDSVGVTKTLAASVSASANAAYMINSMDSYLSAVSDNFAERICQVPGKSGCSASY 63
DB 40 TDVGDLT-----LDEILKNQDLNDISGLDGVNSLNDLIAQ-----GNLNTL 85
QY 64 SAYMSRCAKQDCLTLOSRLKPLEA-----KYOP-----LTLPDPY---Q 99
DB 86 SKEILKIANQONQVNDVNNKLDIAINTMLRVLYLPKITSMLSVMKONVALSLQIEYLSQ 145
QY 100 LEAFLIFKESDANP-ANSTKRFMRFRGKN-HSYFHDLVF-NLLEKNVTRDADATDI 156
DB 146 LQETISDKLDIINNVNLINSTLTETTPAYQRIKYVNEKEFEELTPATETSSKVKKDGSPADI 205
QY 157 ENASRYLVMAITLYKTYTNVDEFGASFENKLSFTTGLEG-WGIKRALKQIITSNLPL-- 213
DB 206 RDELTELTELAKSVTKNDVDGFEFYLNTEFDVAVGNLFGRSALKTASSELITRENVKTSG 265
QY 214 -DIGTEHS---VSRLQHTTSYKDYMDIQIPALPKFAKRFSLMVVQRLLATVAGVVDTP 268
DB 266 SEGVNYYNFIIVLTALQ-----AKAFLLTLCRKLGLADIDYTS 305
QY 269 WYKMYMKLK-NFMVNRVFIPIPKKEFNKEIREPSKALKEKVSVDYTDLDFENKIGQGVDF 327
DB 306 INNEHLNKEKEEERFVN--LLPT---LSNFTSNBNYAKVKSGSDDAKMIYAKPGHALIGF 360
QY 328 FNEIHPDPSKALKEKVSNDN---KDLFENKIGQGVDFINNEIRDSKALIRKVSQAED 384
DB 361 -----EISNDSTIYLVKVEAKLKO-----NYQV---DKDSLSEVITGDM 397
QY 385 --LFEKNKIGQGVDFINNEIRDSKALIRKV-----YTEADDLFENKIGQGVDF 432
DB 398 KLLCPQSGO---IYTTNNIVFPNEVYITKIDFTKKMKTLRIEVTANFNVDSSIGE--ID- 451
QY 433 INKEIRDPKALIRKYSTEADN 455
DB 452 LNKKVSESEAEYRTLSANDGV 474

RESULT 29
US-08-471-044-32
```

```

; Sequence 32, Application US/08471044
; Patent No. 5840868
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory M
; APPLICANT: Kozietel, Michael G
; APPLICANT: Mullins, Marsha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalin M
; APPLICANT: Kostichka, N. Kristy
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J
; TITLE OF INVENTION: No. 5840868el Pesticidal Proteins and Strains
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: NJ
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30B
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,044
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/463,483
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/314,594
; FILING DATE: 09-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/218,018
; FILING DATE: 23-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/037,057
; FILING DATE: 25-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pace, Gary M.
; REGISTRATION NUMBER: 40,403
; REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV6 - SOLV3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8682
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-471-044-32

Query Match          4.1%; Score 96.5; DB 2; Length 789;
Best Local Similarity 20.3%; Pred. No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

QY 4 SDSVGVTKTLAASVSASANAAYMINSMDSYLSAVSDNFAERICQVPGKSGCSASY 63
DB 40 TDVGDLT-----LDEILKNQDLNDISGLDGVNSLNDLIAQ-----GNLNTL 85
QY 64 SAYMSRCAKQDCLTLOSRLKPLEA-----KYOP-----LTLPDPY---Q 99
DB 86 SKEILKIANQONQVNDVNNKLDIAINTMLRVLYLPKITSMLSVMKONVALSLQIEYLSQ 145
QY 100 LEAFLIFKESDANP-ANSTKRFMRFRGKN-HSYFHDLVF-NLLEKNVTRDADATDI 156
DB 146 LQETISDKLDIINNVNLINSTLTETTPAYQRIKYVNEKEFEELTPATETSSKVKKDGSPADI 205
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```

Db 86 SKEILKIANEQNOVLNDVNNKLDALNTMLRVLYLPKITSMLSDVMKONVALSIQIEVLSKQ 145
OY 100 LEAATILFKESDANP-ANSTKRFMMFRGKN-HSYFDLVF-NLLEKNVTRDADATDI 156
Db 146 LOEISDKLDIINNVNLINSTLIEITPAQRIKYVNEKFEELTATETSSKVKKDGSPADI 205
OY 157 ENFASRYLYMAFLYYKYTYNVDEFGASFNNKLSFTTGLFG-WGIRKALQIIRSNLPL-- 213
Db 206 RDELTELTELASVTKNDVDGFEFLNTHFDVWGNLFGRSALKATASLITKENYKTS 265
OY 214 -DIGTEHS---VSRLOHTTSSKYDMQIOPALPKFAKFSLMVQRLATVAGVDP 268
Db 266 SEGVNYYNFIYLTAQ-----AKAFILTFPCRLKLGADIDYTS 305
OY 269 WKKKYMKLK-NFMVNRVFIPTKFFNKELREPSKALKEKVSITDKDFENKIGQTVDF 327
Db 306 INNEHLNKEEPRVN--LLPT---LSNTFSNPNYAKVGSDEDAIMYEAKGHALIGF 360
OY 328 FNKEIRDPKALKEKVSND--KDLFENKIGQTVDFINNEIRDPKALIRKYSTGAD 384
Db 361 -----EISNDSTVLKYEAKLQ-----NYQV---DKDSLSEVIYGDMD 397
OY 385 --LFENKIGQTVDFINNEIRDPKALIRK-----YTEADDFENKIGQTVDF 432
Db 398 KILCPDQSGO---IYTNIVFPNEVITKIDFTKMKTLREVTANFYDSSTGE--ID- 451
OY 433 INKEIRDPKALIRKYSTEADNL 455
Db 452 LNKKVESSEAEYRTLSANDGV 474

RESULT 33
US-08-838-219B-4
; Sequence 4, Application US/08838219B
; Patent No. 5877012
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory M
; APPLICANT: Koziel, Michael G
; APPLICANT: Mullins, Martha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalini M
; APPLICANT: Kostichka, N. Kristy
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J
; TITLE OF INVENTION: A No. 5877012el Class of Proteins for the
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSER: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: NY
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30B
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/838,219B
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/463,483
; FILING DATE: 06-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/314,594
; FILING DATE: 09-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/218,018
; FILING DATE: 23-MAR-1994

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/037,057
; FILING DATE: 25-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pace, Gary M.
; REGISTRATION NUMBER: 40,403
; REFERENCE/DOCKET NUMBER: CGC 1925
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8582
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-838-219B-4

Query Match 4.1%; Score 96.5; DB 2; Length 789;
Best Local Similarity 20.3%; Pred No. 2.1;
Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

OY 4 SDSVGDVTKTLAASESVDSAAANVYINSDMSDYLAVSDNFAERICQVPGKSGNSASV 63
Db 40 TDTGSDLT-----LDELKKNQOLDNDISGKLDGVNGSLNDLIAQ-----GNLNTL 85
OY 64 SAYMRCAKQDCILFLOSLEKPLEA-----KYOP-----LTLPDPY---Q 99
Db 86 SKEILKIANEQNOVLNDVNNKLDALNTMLRVLYLPKITSMLSDVMKONVALSIQIEVLSKQ 145
OY 100 LEAATILFKESDANP-ANSTKRFMMFRGKN-HSYFDLVF-NLLEKNVTRDADATDI 156
Db 146 LOEISDKLDIINNVNLINSTLIEITPAQRIKYVNEKFEELTATETSSKVKKDGSPADI 205
OY 157 ENFASRYLYMAFLYYKYTYNVDEFGASFNNKLSFTTGLFG-WGIRKALQIIRSNLPL-- 213
Db 206 RDELTELTELASVTKNDVDGFEFLNTHFDVWGNLFGRSALKATASLITKENYKTS 265
OY 214 -DIGTEHS---VSRLOHTTSSKYDMQIOPALPKFAKFSLMVQRLATVAGVDP 268
Db 266 SEGVNYYNFIYLTAQ-----AKAFILTFPCRLKLGADIDYTS 305
OY 269 WKKKYMKLK-NFMVNRVFIPTKFFNKELREPSKALKEKVSITDKDFENKIGQTVDF 327
Db 306 INNEHLNKEEPRVN--LLPT---LSNTFSNPNYAKVGSDEDAIMYEAKGHALIGF 360
OY 328 FNKEIRDPKALKEKVSND--KDLFENKIGQTVDFINNEIRDPKALIRKYSTGAD 384
Db 361 -----EISNDSTVLKYEAKLQ-----NYQV---DKDSLSEVIYGDMD 397
OY 385 --LFENKIGQTVDFINNEIRDPKALIRK-----YTEADDFENKIGQTVDF 432
Db 398 KILCPDQSGO---IYTNIVFPNEVITKIDFTKMKTLREVTANFYDSSTGE--ID- 451
OY 433 INKEIRDPKALIRKYSTEADNL 455
Db 452 LNKKVESSEAEYRTLSANDGV 474

RESULT 34
US-08-469-334-32
; Sequence 37, Application US/08469334
; Patent No. 5990383
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory M
; APPLICANT: Koziel, Michael G
; APPLICANT: Mullins, Martha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalini M
; APPLICANT: Kostichka, N. Kristy
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J

```



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; Patent No. 6137033
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory W
; APPLICANT: Koziel, Michael G
; APPLICANT: Mullins, Martha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalin M
; APPLICANT: Kostichka, N. Kristy
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J
; TITLE OF INVENTION: A No. 6137033el Class of Proteins for the
; TITLE OF INVENTION: Control of Plant Pests
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: NY
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30B
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/233,752A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/838,219
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/314,594
; FILING DATE: 09-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/218,018
; FILING DATE: 23-MAR-1994
; APPLICATION DATA:
; APPLICATION NUMBER: US 08/037,057
; FILING DATE: 25-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pace, Gary M.
; REGISTRATION NUMBER: 40,403
; REFERENCE/DOCKET NUMBER: CGC 1925
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8582
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-233-752A-4

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Query Match 4.1%; Score 96.5; DB 4; Length 789;
 Best Local Similarity 20.3%; Pred. No. 2.1;

Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

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QY 4 SDSVGVTKTLAASEVSDSAANAYMINSMDYLSAVSDNFAERICQVPGKSGCSASY 63
DB 40 TDTGDDLT-----LDEILKNOQLNDISGKLDGVNGLNDLIAQ-----GNLMTL 85
QY 64 SAYMSRCAKODCLTLOSILKYPLEA-----KYOP-----LTLPPY---Q 99
DB 86 SKELTKJANONOVLDNVNKKLDIAINTMLRPKITSMESDVAKQNVALSLQIETLSKQ 145
QY 100 LEAFILFKESDANP-ANSTEFKRFMRFRGKN-HSYFHDLVF-NLEKNVTRDADATDI 156
DB 146 LQETSDKLDIINNVILNSTLETITPAVQRKIKYNEKEFEELTFATETSSKKKSGPADI 205

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QY 157 ENFASRYLYMATLYKTYTNVDEFGASFNNKLSFTTGLFG-WGIRKALKOIIINSNPL-- 213
DB 206 RDELTELETELKASVTKNDVGFEEYLTNPFHDVVGNNLFGRSALKTASELITRENVTSG 265
QY 214 -DIGTEHS-----VSRLOHITSSYKDYMDQIIPALPKFAKRFSLMVGRLATVAGYVDP 268
DB 266 SEVGNNVNEFLIVLALO-----AKAFLLTTPCKRLGLGADIDYTS 305
QY 269 WYKKWYKLR-NFVNVNVEFPTPKFENKEIREPSKALKREVSNTDKLFEENKIGOGTVDF 327
DB 306 IMNHENLKEKEEFVRV-N-IILPT---LSNTFSNPVAKVKSDEDAKMIIVEAKGHALIGF 360
QY 328 FNEKIRDPISKALKREKVSNDN---KDLFENKIGOGTVDFINNEIRDPISKALIRKYSTAED 384
DB 361 -----EISNDSTVTLKYVEARKQ-----NYQV---DKDSLSEVIYGDMD 397
QY 385 -LFEENKIGOGTVDFINNEIRDPISKALIRKY-----YEADDLFENKIGOGTVDF 432
DB 398 KILCPDQSGQ---IYYNNIVFPEYVITKIDFTKKMKTLRYETVATNFYDSSTGE--ID- 451
QY 433 INNEIRDPISKALIRKYSTEADNL 455
DB 452 LKKKVESSEAEYRTLSANDGV 474

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RESULT 38

US-09-402-036-4
 ; Sequence 4, Application US/09402036
 ; Patent No. 6291156

; GENERAL INFORMATION:

; APPLICANT: Estruch, Juan J.
 ; APPLICANT: Yu, Cao-Guo
 ; APPLICANT: Warren, Gregory W.
 ; APPLICANT: Desai, Nalin M
 ; APPLICANT: Koziel, Michael
 ; APPLICANT: Nye, Gordon

; TITLE OF INVENTION: Plant Pest Control
 ; FILE REFERENCE: S-21284C

; CURRENT APPLICATION NUMBER: US/09/402,036
 ; CURRENT FILING DATE: 2000-02-08

; PRIOR APPLICATION NUMBER: PCT/EP98/01952
 ; PRIOR FILING DATE: 1998-04-02

; PRIOR APPLICATION NUMBER: 08/838,219
 ; PRIOR FILING DATE: 1997-04-03

; PRIOR APPLICATION NUMBER: 08/832,263
 ; PRIOR FILING DATE: 1997-04-03

; PRIOR APPLICATION NUMBER: 08/832,265
 ; PRIOR FILING DATE: 1997-04-03

; PRIOR APPLICATION NUMBER: 08/463,483
 ; PRIOR FILING DATE: 1995-06-05

; PRIOR APPLICATION NUMBER: 08/314,594
 ; PRIOR FILING DATE: 1994-09-09

; PRIOR APPLICATION NUMBER: 08/218,018
 ; PRIOR FILING DATE: 1994-03-24

; PRIOR APPLICATION NUMBER: 08/037,057
 ; PRIOR FILING DATE: 1993-03-25

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 4

; LENGTH: 789

; TYPE: PRT

; ORGANISM: Bacillus thuringiensis

US-09-402-036-4

Query Match 4.1%; Score 96.5; DB 4; Length 789;
 Best Local Similarity 20.3%; Pred. No. 2.1;

Matches 102; Conservative 80; Mismatches 202; Indels 119; Gaps 24;

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QY 4 SDSVGVTKTLAASEVSDSAANAYMINSMDYLSAVSDNFAERICQVPGKSGCSASY 63
DB 40 TDTGDDLT-----LDEILKNOQLNDISGKLDGVNGLNDLIAQ-----GNLMTL 85
QY 64 SAYMSRCAKODCLTLOSILKYPLEA-----KYOP-----LTLPPY---Q 99

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APPLICANT: Wilkinson, Bethanle Elident
APPLICANT: Voznesensky, Andrei I.
TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA
TITLE OF INVENTION: HEMAGGLUTININ MULTIVALENT VACCINES
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
CITY: Atlanta
STATE: GA
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,027
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/453,848
FILING DATE: 30-MAY-1995
APPLICATION NUMBER: 08/120,607
FILING DATE: 13-SEPT-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MGS101C1P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-873-8795
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 570 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Influenza virus
INDIVIDUAL ISOLATE: A/Beijing/32/92 rHA
FEATURE:
NAME/KEY: AcNPV 61K protein signal sequence
LOCATION: 1 to 18
FEATURE:
NAME/KEY: mature rHA
LOCATION: 19 to 552
US-09-169-027-7

Query Match 4.0%; Score 95.5; DB 4; Length 570;
Best Local Similarity 18.7%; Pred. No. 1.6;
Matches 102; Conservative 74; Mismatches 196; Indels 173; Gaps 25;

OY 3 PSDVG--DYTKTLAASESDSANAMVINSMDYLSA---VSDNFAERICS---OVP 54
DB 20 PGDFPGDNDSTATLCLHHAHVNGTLVKTINDOIETVNTATLVOSSSTGRICDSPHRL 79
OY 55 KGSNCASVSAYMSRCAKODLTLOSILKYP-----EAKYOPLLPDPYQL-----EA 102
DB 80 DGRKCTL-IDALL---GDPKCDGFQNKEMDLFEKSKAYSCYDVPDYASLSLVASS 135
OY 103 AFILFKESDANPANSTKRFMMRRRGKNHSYFDLVFNLEK-----NVT----- 148
DB 136 GTLEFINEDFMGTGVAOGGSGYACKRGSVNSFSRL--NMLKSEYKYPALNTVMPNNGK 193
OY 149 -----RDADATDIENFASRYLYMAT-----LY 170

DB 194 FDKLYIWMGVHHPSTDRDQTSLYVRASGRVTVSTRSQQTVPNIGSRPMVRSQSSRSIY 253
OY 171 YKTYTNVEFGASFENKLSFTTGLFGMGIKRALKOIIRSNPLDIGHESVSRLOHTSS 230
DB 254 WTIYKPGDILLINSTGNLIARGYE--KIRNGKSSIMSDAPICGSCCITPNSTIND 311
OY 231 --YKDYMDTOIPALPEKFAKRESLAV-----VORLLATVAGVDTW---YKKWY 274
DB 312 KPFQVNRITYGACPRYVKONTIKLATGMRVNPEKOTGIFGALGFLENMGWGDWY 371
OY 275 -----MKLK-----NEMVNRVFIPTKKFFN---KEIRPSKALK--EK 307
DB 372 GFRHONSEGTOAADLKSTQAIDQINGKLNRLEKTEKFEHQIEKFESEVEGRIQDLEK 431
OY 308 VSTDTK-DLFENKIGQGVDFENKEIRDPKALKKEKVSNDAKDLFENKIGQGVDFINNE 366
DB 432 YVEDTKIDLMS-----YNEEL--LVALE-----NOHTIDLDTSE 463
OY 367 IRDPSKALIRKVSCTGAEDELFEKNIKQGTVDPIINNEIRDPKALIRKYYTEADDLFENKIG 426
DB 464 MNKLEKTRKQDLREVAEDM-----GNCGF-----KIYHKCDNMGCSIR 502
OY 427 QGTVD 431
DB 503 NGTYD 507

Search completed: October 19, 2002, 07:53:10
Job time : 35 secs